Seq List.ST25 SEQUENCE LISTING

Yeda Research and Development Co. Ltd. at the Weizmann <110> Institute of Science <120> Diastereomeric Peptides Useful As Inhibitors of Membrane Protein Assembly YEDA/038 PCT <130> us 60/530,899 2003-12-22 <150> <151> <160> 29 <170> PatentIn version 3.3 <210> <211> 36 <212> PRT Artificial sequence <213> <220> Synthetic peptide <223> <400> 1 Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu 20 25 30 Trp Asn Trp Phe <210> <211> 36 <212> PRT <213> Artificial sequence <220> <223> Synthetic peptide <220> <221> <222> MISC_FEATURE (12)..(12)<223> D-Ser <220> <221> MISC_FEATURE <222> (13)..(13)<223> D-Gln <400>

Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln 1 10 15

Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu 20 25 30

```
Trp Asn Trp Phe 35
<210>
        3
36
<211> 36
<212> PRT
       Artificial sequence
<213>
<220>
<223>
        Synthetic peptide
<220>
<221> MISC_FEATURE
<222> (32)..(32)
<223> D-Leu
<220>
<221>
<222>
       MISC_FEATURE (33)..(33)
<223> D-Trp
<400> 3
Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln 10 15
Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu 20 25 30
Trp Asn Trp Phe 35
<210> 4
<211> 33
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 4
Ala Val Gly Ile Gly Ala Leu Phe Leu Gly Phe Leu Gly Ala Ala Gly 10 	 10
Ser Thr Met Gly Ala Arg Ser Met Thr Leu Thr Val Gln Ala Arg Gln 20 25 30
Leu
        5
33
<210>
<211> 33
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
```

Seq List.ST25

```
<220>
<221> MISC_FEA 
<222> (4)..(4) 
<223> D-Ile
       MISC_FEATURE
<220>
<221> MISC_FEATURE
<222> (8)...(
<223> D-Phe
        (8)..(8)
<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> D-Phe
<220>
<221> MISC_FEATURE
<222> (14)..(14)
<223> D-Ala
<400> 5
Ala Val Gly Ile Gly Ala Leu Phe Leu Gly Phe Leu Gly Ala Ala Gly
1 5 10 15
Ser Thr Met Gly Ala Arg Ser Met Thr Leu Thr Val Gln Ala Arg Gln 20 25 30
Leu
<210> 6
         33
<211> 33
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221>
<222>
<223>
         MISC_FEATURE
         (8)..(8)
         D-Phe
<220>
<221>
<222>
         MISC_FEATURE
         (11)..(11)
 <223> D-Phe
<400> 6
Ala Val Gly Ile Gly Ala Leu Phe Leu Gly Phe Leu Gly Ala Ala Gly 10 \ 15
 Ser Thr Met Gly Ala Arg Ser Met Thr Leu Thr Val Gln Ala Arg Gln 20 25 30
```

Leu

<u>>_ 7</u>

```
<211>
        33
<212>
        PRT
        Artificial sequence
<213>
<220>
<223>
        Synthetic peptide
<220>
        MISC_FEATURE
<221>
<222> (8) (8)
<223>
        D-Phe
<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> D-Phe
<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> D-Ala
<220>
<221>
<222>
<223>
        MISC_FEATURE
        (26)..(26)
        D-Leu
<400> 7
Ala Val Gly Ile Gly Ala Leu Phe Leu Gly Phe Leu Gly Ala Ala Gly 10 \  \  \, 15
Ser Thr Met Gly Ala Arg Ser Met Thr Leu Thr Val Gln Ala Arg Gln 20 25 30
Leu
<210> 8
<211> 15
<212> PRT
<213> Artificial sequence
<220>
<223>
        Synthetic peptide
<400> 8
Ile Thr Leu Ile Ile Phe Gly Val Met Ala Gly Val Ile Gly Thr
<210>
<210> 17
<211> 17
<212> PRT
<213> Artificial sequence
         17
<220>
<223> Synthetic peptide
<400> 9
Lys Ile Thr Leu Ile Ile Phe Gly Val Met Ala Gly Val Ile Gly
5 10 15
                                             10
                                              Page 4
```

Seg List.ST25

Thr

```
<210> 10
<211> 19
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 10
Lys Lys Ile Thr Leu Ile Ile Phe Gly Val Met Ala Gly Val Ile Gly 1 \phantom{-} 10 \phantom{-} 15
Thr Lys Lys
<210> 11
<211> 15
<212> PRT
<213> Artificial sequence
<220>
<223>
        Synthetic peptide
<220>
<221>
<222>
<223>
        MISC_FEATURE
        (8)..(8)
D-Val
<220>
<221>
<222>
        MISC_FEATURE (12)..(12)
<223>
        D-Val
<400> 11
Ile Thr Leu Ile Ile Phe Gly Val Met Ala Gly Val Ile Gly Thr 10 15
        12
17
<210>
<211>
 <212> PRT
 <213> Artificial sequence
 <220>
 <223> Synthetic peptide
 <220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> D-Val
 <220>
          MISC_FEATURE
 <221>
 <222>
-223>
         (14)..(14)
D-Val
```

Seq List.ST25

<400> 12 Lys Lys Ile Thr Leu Ile Ile Phe Gly Val Met Ala Gly Val Ile Gly $10 \ \ \, 15$

Thr

<210> 13 <211> 19 <212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (10)..(10)

<223> D-Val

<220>

<221> MISC_FEATURE

<222> (14)..(14) <223> D-Val

<400> 13

Lys Lys Ile Thr Leu Ile Ile Phe Gly Val Met Ala Gly Val Ile Gly 10 10 15

Thr Lys Lys

<210> 14

<211> 15

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

MISC_FEATURE

<220> <221> <222> (5)..(5)

<223> Ď-Íle

<220>

MISC_FEATURE (13)..(13) D-Ile <221>

<222>

<223>

<400>

Ile Thr Leu Ile Ile Phe Gly Val Met Ala Gly Val Ile Gly Thr 1 10 15

<210> 15

<211> <21?> 17 PRT

> Artificial sequence

Seq List.ST25

```
<220>
<223> Synthetic peptide
<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> D-Ile
<220>
<221> MISC_FEATURE
<222> (15)..(15)
<223> D-Ile
<400> 15
Lys Lys Ile Thr Leu Ile Ile Phe Gly Val Met Ala Gly Val Ile Gly 10 \  \  \, 10
Thr
<210>
         16
<211> 19
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> D-Ile
<220>
<221> MISC_FEATURE
<222> (15)..(15)
<223> D-Ile
<400> 16
Lys Lys Ile Thr Leu Ile Ile Phe Gly Val Met Ala Gly Val Ile Gly 10 \  \  \, 10
Thr Lys Lys
 <210> 17
<211> 32
<212> PRT
<213> Artificial sequence
 <220>
 <223> Synthetic peptide
 <220>
 <221> MISC_FEATURE
<222> (13)..(13)
-222> D-Val
```

Seq List.ST25

```
<220>
<221> MISC_FEATURE
<222>
       (17)..(17)
<223> D-Val
<400> 17
Phe Ser Glu Pro Glu Ile Thr Leu Ile Ile Phe Gly Val Met Ala Gly 1 10 15
Val Ile Gly Thr Ile Leu Leu Ile Ser Tyr Gly Ile Arg Arg Leu Ile 20 25 30
<210>
        18
<211>
<212>
        35
       PRT
       Artificial sequence
<213>
<220>
<223>
       Synthetic peptide
<220>
<221>
<222>
       MISC_FEATURE
       (16)..(16)
D-Val
<223>
<220>
<221>
<222>
       MISC_FEATURE
<222> (20)..(20)
<223> D-Val
<400> 18
Lys Lys Lys Phe Ser Glu Pro Glu Ile Thr Leu Ile Ile Phe Gly Val1 	 5 	 10 	 15
Met Ala Gly Val Ile Gly Thr Ile Leu Leu Ile Ser Tyr Gly Ile Arg 20 25 30
Arg Leu Ile
<210>
        19
        32
<211>
<212>
       PRT
       Artificial sequence
<213>
<220>
<223> Synthetic peptide
<220>
<221>
       MISC_FEATURE
<222>
       (10)..(10)
<223>
<220>
       MISC_FEATURE
(18)..(18)
D-Ile
<221>
<222>
<223>
```

Seq List.ST25

Phe Ser Glu Pro Glu Ile Thr Leu Ile Ile Phe Gly Val Met Ala Gly 1 5 10 15

Val Ile Gly Thr Ile Leu Leu Ile Ser Tyr Gly Ile Arg Arg Leu Ile 20 25 30

- <210> 20
- <211> 16 <212> PRT
- <213> Artificial sequence
- <220>
- <223> Synthetic peptide
- <400> 20

Met Val Leu Gly Val Phe Ala Leu Leu Gln Leu Ile Ser Gly Ser Leu 1 10 15

- <210> 21 <211> 21 <212> PRT
- <213> Artificial sequence
- <220>
- <223> Synthetic peptide
- <400> 21

Lys Lys Lys Met Val Leu Gly Val Phe Ala Leu Leu Gln Leu Ile Ser $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Gly Ser Leu Lys Lys 20

- <210> 22
- 16
- <211> <212> PRT
- <213> Artificial sequence
- <220>
- <223> Synthetic peptide
- <220>
- MISC_FEATURE (10)..(10) D-Gln
- <221> <222> <223>
- <220>
- MISC_FEATURE
- <221> <222> (15)..(15)
- <223> D-Ser
- <400> 22

Met Val Leu Gly Val Phe Ala Leu Leu Gln Leu Ile Ser Gly Ser Leu 1 5 10 15

-210> 23 > 21

```
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> D-G1n
<220>
<221> MISC_FEATURE <222> (18)..(18)
       (18)..(18)
<223> D-Ser
<400> 23
Lys Lys Lys Met Val Leu Gly Val Phe Ala Leu Leu Gln Leu Ile Ser
Gly Ser Leu Lys Lys
20
<210> 24
<211> 8
<212> PRT
<213> Artificial sequence
<220>
 <223> Synthetic peptide
 <400> 24
Ala Val Gly Ile Gly Ala Leu Phe
1 5
 <210> 25
<211> 17
 <212> PRT
 <213> Artificial sequence
 <220>
 <223> Synthetic peptide
 <220>
 <221>
         MISC_FEATURE
 <222>
<223>
         (5)..(5)
D-Ala
 <220>
         MISC_FEATURE
 <221>
 <222>
         (6)..(6)
D-Glu
 <223>
 <220>
 <221> MISC_FEATURE
<222> (7)..(7)
<223> D-Ala
  <220>
     > MISC_FEATURE
!> (8)..(8)
```

```
<223> D-Ala
<220>
<221> MISC_FEATURE <222> (11)..(11)
       (11)..(11)
<223> D-A1a
<220>
<221> MISC_FEATU
<222> (15)..(15)
        MISC_FEATURE
<223> D-Ala
<220>
<221> MISC_FEATU
<222> (16)..(16)
        MISC_FEATURE
<223> D-Ala
<220>
<221> MISC_FEATURE
<222> (17)..(17)
<223> D-Ala
<400> 25
Lys Lys Ile Thr Ala Gly Ala Ala Gly Val Ala Ala Gly Val Ala Ala 1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15
Ala
<210>
        26
        34
<211>
<212>
        PRT
<213>
        Artificial sequence
<220>
<223>
        Synthetic peptide
<400> 26
Trp Met Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr Ser Leu Ile His 10 15
Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu
20 25 30
Leu Leu
 <210>
         27
         13
 <211>
 <212>
        PRT
        Artificial sequence
 <213>
 <220>
<223>
        Synthetic peptide
 <400> 27
 Ala Val Gly Ile Gly Ala Leu Phe Leu Gly Phe Leu Gly 1 	 5 	 10
```

Seq List.ST25

<210> 28 <211> 33 <212> PRT <213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 28

Phe Phe Gly Ala Val Ile Gly Thr Ile Ala Leu Gly Val Ala Thr Ser 1 10 15

Ala Gln Ile Thr Ala Gly Ile Ala Leu Ala Glu Ala Arg Glu Ala Lys 20 25 30

Arg

<210> 29 <211> 21

<212> PRT <213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 29

Lys Lys Lys Met Val Leu Gly Val Phe Ala Leu Leu Phe Leu Ile Gly $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Gly Ser Leu Lys Lys 20